

**INVERSE HALFTONING PROCESS**

**ABSTRACT**

Performing inverse halftoning on a halftoned image  
5 includes smoothing the halftoned image using a two-dimensional  
filter to produce a smoothed image, detecting edge areas in  
the smoothed image, performing lowpass filtering on non-edge  
areas of the smoothed image, and generating an enhanced image  
comprised of the edge areas of the smoothed image and lowpass-  
10 filtered non-edge areas of the smoothed image.

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